

### Abstract

5        Provided is a five sensory data synchronizing and  
transmitting apparatus and method, and an actual-feeling  
multimedia data providing system and method using the same.  
The five sensory data synchronizing and transmitting  
apparatus and method forms packets by describing vibration,  
an odor and a taste expressed in video/audio based on  
touch, odor and taste data descriptors and synchronizes the  
10    touch/odor/taste packets with video/audio packets on a  
frame basis; and then, the actual-feeling multimedia data  
providing system and method demultiplexes the received  
packets transmitted from the five sensory data  
synchronizing and transmitting apparatus into video data,  
15    audio data, touch data, odor data and taste data and  
transmits them to corresponding devices to thereby provide  
a user with an actual-feeling multimedia service.